

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by Stansteel Corporation Leader Works Decatur, Illinois
(Name and address of Manufacturer)

2. Manufactured for Cardox Division of Chemetron Chicago, Illinois
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (43796) (Mrs. Serial) (State & State No.) Natl. Bd. No. 43838 Yr. Built 1970
(Horiz. or Vert.)

4. SHELL: Matl. SA-515-70 T.S. 70,000 Nom. Thk 31/32 Allow 0 In. Diam. 6 Ft. 6 In. Length 10 Ft. 1 In.
(Kind and Spec. No.) (Fig. or F.H. & Spec. Min. T.S.) (Nom. or Corr.)

5. SEAMS: Long Weld Dbl. H.T. No R.T. Spot Sectioned No Efficiency 85 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Girth Weld Dbl. H.T. No R.T. Spot Sectioned No No. of Courses 2

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA-515-70 T.S. 70,000 (b) Material _____ T.S. _____
Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)
(a) Ends .8125 Min. 2:1 Concave

If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. ² 363 psi at max. temp. 650 °F. Min. temp. (when less than -20°) _____ °F. Hydrostatic ~~XXXXXXXXXX~~ Test Press 550 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number _____ Size _____ Location Furn. & Applied in field

9. NOZZLES: * (continued on #12)

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>Coil</u>	<u>2</u>	<u>1-1/8"</u>	<u>Pipe</u>	<u>SA-53</u>	<u>x-hvy.</u>	<u>- - -</u>	<u>welded</u>
<u>Outlet & Vent</u>	<u>3</u>	<u>1-1/8"</u>	<u>Pipe</u>	<u>SA-53</u>	<u>x-hvy.</u>	<u>- - -</u>	<u>welded</u>

10. INSPECTION Manholes, No. 1 Size 15" Location In Head
OPENINGS: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

11. SUPPORTS: Skirt NO Lugs (Number) _____ Legs (Number) _____ Other (2) Lift Lugs attached Welded to pads
(Yes or No) (Describe) (Where & How)

12. REMARKS:
* Outlet 2 1" Pipe SA-106 x-hvy. - - - welded
1 3" Pipe SA-53 x-hvy. - - - welded

13 Ton CO2 Storage Tank

Built to 1968 A.S.M.E. Code Sect. VIII Div. I

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.
² If postweld heat-treated.
³ List other internal or external pressures with coincident temperature when applicable.

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division I.
Date August 5 19 70 Signed Stansteel Corporation Leader Works By Michael Thomas
(Manufacturer)

Certificate of Authorization Expires 12/31/70

CERTIFICATE OF SHOP INSPECTION
Works
VESSEL MADE BY Stansteel Corporation Leader at Decatur, Illinois
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province Illinois and employed by The Fidelity & Casualty Co. of New York have inspected the pressure vessel described in this manufacturer's data report on August 5 1970 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date August 5 1970
Michael Thomas Commissions NB # 3673, PA # 1498 and OHIO
Inspector's Signature Nat'l Board, State, or Province and No.